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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,325	02/07/2006	Eiji Akiyama	NECNE70207	1134
27667 HAYES SOLO	7590 03/10/2009 WAY P.C		EXAMINER BEST, ZACHARY P	
3450 E. SUNF	RISE DRIVE, SUITE 140)		
TUCSON, AZ	85718		ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			03/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

	Application No.	Applicant(s)	
10/567,325		AKIYAMA ET AL.	
Examiner		Art Unit	
	Zachary Best	1795	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 25 February 2009 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. X The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this

application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

a) The period for reply expires 3 months from the mailing date of the final rejection.

b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

The Notice of Appeal was filed on . A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ They raise the issue of new matter (see NOTE below);
(c) 🔲 They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for
appeal; and/or
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: . (See 37 CFR 1.116 and 41.33(a)). The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

Applicant's reply has overcome the following rejection(s):

6. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. X For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) x will be entered and an explanation of

how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed:

Claim(s) objected to:

Claim(s) rejected: 1 and 3-6. Claim(s) withdrawn from consideration:

AFFIDAVIT OR OTHER EVIDENCE

8.	The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered	
	because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary an	١d
	was not earlier presented. See 37 CFR 1.116(e).	

 The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER

11. X The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.

12. Note the attached	ched Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)
13. ☐ Other:		

/Dah-Wei D. Yuan/

Supervisory Patent Examiner, Art Unit 1795

Continuation of 11. does NOT place the application in condition for allowance because: Applicant argues that a nonporous layer of PTFE is not inherently permelective to carbon dioxide based on Pinnau et al., and the art supplied actually teaches that non-prous PTFE is not useful in separation applications. It is first noted that Roberts teaches that the nonprous structures are used for separators for fuel cells and as filtering media for corrosive chemicals. Furthermore, Pinnau et al. state that drystalline PTFE has post permeability, but Plnnau et al. goes on to state that the polymer should be amorphous (non-crystalline, par. 1711) because amorphous PTFE has good permeability (par. 1742).

Regardless, Roberts teaches a two-layer membrane wherein one layer is porous PTFE and one layer is non-porous PTFE, which is identical to the vapor-liquid separation membrane disclosed in the instant specification (example 1). Therefore, the permiselectivity would be inherent in the membrane of Roberts as addressed in the last Office Action.

Applicant further argues that there is no motivation to combine the cited art because one of ordinary skill in the art would not substitute a material for its increased tensile strength and expect to have superior gas filtration and consequent fuel efficiency. It is first noted that KSR and the MPEP do not require that the combination has superior properties as suggested by Applicant. The predictable result of combining Ren et al. with Roberts is create a membrane that can be used in fuel cell membrane applications with improved tensile strength. Superior gas filtration and consquent [superior] fuel efficiency is not required. The prior at 's mere disclosure of more than one alternative does not constitute a teaching away from any of these alternatives because such disclosure does not criticize, discredit, or otherwise discourage the solution claimed. In pre-fullon, 391 F.3d 1195 (Fed. Cir. 2004). MPEP 2143.01. See also MPEP 2141(III).